Application No. Applicant(s)

	10/625,254	10/625,254	
Notice of Allowability	Examiner	Art Unit	
	James J. Leybourne	2881	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in the 5) or other appropriate communi RIGHTS. This application is sub	is application. If not inclu- cation will be mailed in du-	ded e course. THIS
1. \boxtimes This communication is responsive to <u>Amendment received</u>	ed 1 October 2005.		
2. The allowed claim(s) is/are 12-32.			
3. \boxtimes The drawings filed on <u>23 July 2003</u> are accepted by the E	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subtracted in the substance of the priority of the p	we been received. we been received in Application I locuments have been received in a locument of this application. In a locument of this application. In a locument of this application. In a locument of the attached EXAM wes reason(s) why the oath or do ust be submitted. In a locument of the locument of th	No In this national stage application is deficient. PTO-948) attached the Office action of drawings in the front (not the initial in	equirements NOTICE OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB. Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Infor) 6. ☐ Interview Sum Paper No./Ma /08), 7. ☐ Examiner's Ar	mal Patent Application (P	·

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DETAILED ACTION

1. According to the "Amendment" received 10 January 2005, the specification has been amended; claims 1-11 have been canceled; claims 12, 21, 22, 29and 30 have been amended and claims 31-32 have been added.

Response to Arguments

2. Applicant's Remarks received 15 November 2004 have been fully considered and are persuasive.

Allowable Subject Matter

- 3. Claims 12-32 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 12, the prior art fails to disclose or make obvious a collector for light having a wavelength ≤193 nm comprising a first mirror shell adjacent to and positioned inside of a second mirror shell wherein said first and second mirror shell are rotationally symmetric and at least one of said first and second mirror shells includes a segment having a first optical surface and a second segment having a second optical surface and a component in a region between said first and second mirror shells wherein said region is not used by said light.

Claims 13-21 are allowed by virtue of their dependency on claim 12.

Regarding independent claim 22, the prior art fails to disclose or make obvious an illumination system for light having a wavelength ≤193 nm comprising a collector as disclosed in claim 12.

Claims 23-28 are allowed by virtue of their dependency on claim 22.

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Regarding independent claim 29, the prior art fails to disclose or make obvious an EUV projection exposure facility for light having a wavelength ≤193 nm comprising a collector as disclosed in claim 12.

Regarding independent claim 30, the prior art fails to disclose or make obvious an method for manufacturing a microelectronic component comprising using an EUV projection exposure facility for light having a wavelength ≤193 nm comprising using an EUV projection exposure facility as disclosed in claim 29.

Regarding independent claim 31the prior art fails to disclose or make obvious an illumination system for wavelengths ≤193 nm, comprising:

a light source; a plane to be illuminated; a collector having a first mirror shell adjacent to, and positioned inside of, a second mirror shell around a common axis of rotation, wherein said first and second mirror shells are rotationally symmetric; and a component in a region between said first and second mirror shells, wherein said collector is for receiving said light from said light source via an object-side aperture and for illuminating an area in said plane, and wherein said region is not used by said light;

a plane conjugated to said light source, between said collector and said plane to be illuminated, in which an intermediate image of said light source is formed;

and a diaphragm positioned in or near said intermediate image, that separates said illumination system into a first space and a second space, wherein said first space includes said light source and said collector.

Claim 32 is allowed by virtue of their dependency on claim 31.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James J. Leybourne whose telephone number is (571) 272-2478. The examiner can normally be reached on M-F 9:00- 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R Lee can be reached on (571) 272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 6, 2005

JJL

JOHN R. LEE

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800